

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A device for attaching at least three electrodes to a subject for stimulating abdominal muscles of the subject, comprising:
 - a belt extending around the torso of the subject;
 - at least three electrodes attachable to said belt for placement on the subject and for applying at least one pulsed signal to the subject for stimulating the muscles;
 - a signal generating means for generating the at least one pulsed signal; and
 - a selecting means for selectively defining electrodes to define electrode pairs from the at least three electrodes, and for selectively applying the at least one pulsed signal to the selected electrode pairs for selective stimulation of one or more of the abdominal muscles;
 - a main locating means provided on the belt for locating a central electrode of the at least three electrodes in a position overlapping a midline of the subject~~substantially about the umbilicus of the subject;~~ and
 - two secondary locating means provided on the belt disposed on respective opposite sides of ~~and equidistant from~~ the main locating means for locating two corresponding side electrodes of the at least three electrodes, a first of the two side electrodes spaced apart from the central electrode in a general direction towards the left mid-axillary line of the subject and a second of the two side electrodes spaced apart from the central electrode in a general direction towards the right mid-axillary line of the subject;
 - ~~wherein application of at least one pulsed signal to the subject through the respective central and side electrodes stimulates the abdominal muscles of the subject.~~

2. (Cancelled)

3. (Previously Presented) The device as claimed in claim 1 wherein the secondary locating means are disposed on the belt for locating the respective side electrodes towards the mid-point of the corresponding mid-axillary line between the rib cage and the corresponding iliac crest.

4. (Previously Presented) The device as claimed in claim 1 wherein the secondary locating means are disposed on the belt for locating the respective side electrodes adjacent the corresponding mid-axillary line.

5. (Previously Presented) The device as claimed in claim 4, wherein the secondary locating means are disposed on the belt for locating the respective side electrodes adjacent the mid-point of the corresponding mid-axillary line between the rib cage and the corresponding iliac crest.

6. (Previously Presented) The device as claimed in claim 1, wherein the main locating means is disposed on the belt for locating the central electrode on the umbilicus and extending around the umbilicus.

7. (Previously Presented) The device as claimed in claim 1, wherein the main locating means is disposed on the belt for locating the central electrode on the umbilicus and extending completely around the umbilicus.

8. (Previously Presented) The device as claimed claim 1, further comprising a reference means provided on the belt for locating the belt on the torso relative to an anatomical reference.

9. (Previously Presented) The device as claimed in claim 8, wherein the reference means is provided for locating the belt circumferentially around the torso.

10. (Previously Presented) The device as claimed in claim 8, wherein the reference means is provided for locating the belt vertically along the torso.

11. (Previously Presented) The device as claimed in claim 8, wherein the main locating means acts as the reference means for locating the belt relative to the anatomical reference provided by the umbilicus.

12. (Previously Presented) The device as claimed in claim 1, further comprising two sets of at least two secondary locating means disposed on the respective opposite sides of and equidistant from the main locating means for facilitating selective location of the respective side electrodes for accommodating different girths of torso.

13. (Original) The device as claimed in claim 12, wherein each set of secondary locating means comprises three secondary locating means.

14. (Previously Presented) The device as claimed in claim 1, wherein portions of the belt on respective opposite sides of the main locating means between the main locating means and the corresponding secondary locating means are formed of resilient material for facilitating resilient stretching of the belt between the main and corresponding secondary locating means.

15. (Previously Presented) The device as claimed in claim 14 characterized in that the belt comprises a resilient material for facilitating stretching of the belt around the torso, the resilient portions of the belt being of greater stretchability than that of other materials of the belt.

16. (Previously Presented) The device as claimed in claim 1, further comprising a main electrically conductive contact means provided on the belt corresponding to the main locating means for receiving the at least one pulsed signal and for relaying the signal to the corresponding central electrode.

17. (Previously Presented) The device as claimed in claim 16, wherein the main contact means is located within the corresponding main locating means.

18. (Previously Presented) The device as claimed in claim 1, further comprising two secondary electrically conductive contact means provided on the belt for receiving the at least one pulsed signal and for relaying the signal to the respective corresponding side electrodes.

19. (Previously Presented) The device as claimed in claim 18, wherein each secondary contact means is located adjacent the corresponding secondary locating means.

20. (Previously Presented) The device as claimed in claim 18, wherein each secondary contact means is located adjacent the secondary locating means so that irrespective of which secondary locating means is selected for locating the corresponding side electrode the side electrode is in electrically conductive engagement with the secondary contact means.

21. (Original) The device as claimed in claim 1, wherein each main and secondary locating means is provided as a visually perceptive locating means.

22. (Previously Presented) The device as claimed in claim 1, wherein each main and secondary locating means is formed as a corresponding locating mark on the belt.

23. (Original) The device as claimed in claim 1, wherein each locating means is adapted for locating a patch type electrode.

24. (Original) The device as claimed in claim 1, wherein the at least three electrodes are formed as a removable part of the device.

25. (Original) The device as claimed in claim 24, wherein each electrode is a patch type electrode.

26. (Original) The device as claimed in claim 25, wherein each side electrode is sized to cover at least a portion of the corresponding lower thoracic nerves and the corresponding first and second lumbar nerves.

27. (Previously Presented) The device as claimed in claim 25, wherein the central electrode is sized to extend substantially across the rectus abdominus muscle.

28. (Original) The device as claimed in claims 25, wherein each electrode defines an area of contact over which the electrode makes direct electrical contact with the subject, the area of contact of each side electrode being such as not to exceed the area of contact of the central electrode.

29. (Original) The device as claimed in claim 28, wherein each side electrode is of width in a circumferential direction relative to the torso of the subject in the range of 50 mm to 150 mm.

30. (Previously Presented) The device as claimed in claim 25, further comprising an electrically conductive coating provided on a side of each electrode facing away from the belt for electrically coupling the electrode to the torso of the subject.

31. (Original) The device as claimed in claim 30, wherein the coating is a gel type coating.

32. (Previously Presented) The device as claimed in claim 1, further comprising a receiving means provided in the belt for receiving a signal generating means for generating the at least one pulsed signal.

33. (Previously Presented) The device as claimed in claim 32, further comprising a main electrical connecting means extending between the receiving means and signal generating

means, and a main contact means for relaying the at least one pulsed signal from the signal generating means to the corresponding main contact means.

34. (Previously Presented) The device as claimed in claim 33, wherein the electrical connecting means is located within the belt.

35. (Previously Presented) The device as claimed in claim 32, further comprising a secondary electrical connecting means extending between the receiving means and the secondary contact means for relaying the at least one pulsed signal from the signal generating means to the corresponding secondary contact means.

36. (Previously Presented) The device as claimed in claim 35, wherein the electrical connecting means is located within the belt.

37. (Original) The device as claimed claim 32, wherein the receiving means is a releasable receiving means for releasably receiving the signal generating means.

38. (Cancelled)

39. (Previously Presented) The device as claimed in claim 1, further comprising a securing means provided on the belt for securing the belt around the torso of the subject.

40. (Original) The device as claimed in claim 1, further comprising a main fastening means provided corresponding to the main locating means for fastening a central electrode to the attachment means adjacent the corresponding main locating means.

41. (Original) The device as claimed in claim 40, wherein the main fastening means comprises a stud fastener.

42. (Previously Presented) The device as claimed in claim 1, further comprising two secondary fastening means provided in the attachment means for fastening the respective side electrodes to the belt adjacent the corresponding selected secondary locating means.

43. (Original) The device as claimed in claim 42, wherein each fastening means comprises a stud fastener.

44. (Original) The device as claimed in claim 43, wherein each stud fastener comprises a female part and a male part.

45. (Previously Presented) The device as claimed in claim 44, wherein each stud fastener is electrically conductive so that the portions of the stud fasteners fastened to the belt form the corresponding contact means.

46. (Previously Presented) The device as claimed in claim 44, wherein an exposed surface of the portions of each stud fastener fastened to the belt is of electrically insulating material.

47. (Previously Presented) The device as claimed in claim 46, wherein the exposed surface of each part of each stud fastener attached to the belt is coated with an electrically insulating coating.

48. (Previously Presented) The device as claimed in claim 43, wherein the stud fastener comprises a first part for attaching to a corresponding electrode, and a second part for attaching to the belt.

49. (Original) The device as claimed in claim 48, wherein the first and second parts of the stud fastener engage each other with electrically conductive engagement.

50. (Original) The device as claimed in claim 48, wherein an exposed external surface of the second part of the stud fastener which abuts the first part of the stud fastener is of electrically insulating material.

51. (Original) The device as claimed in claim 50, wherein the electrically insulating material is provided by an electrically insulated coating on the exposed abutting surface.

52. (Currently Amended) A method for stimulating abdominal muscles of a subject, comprising the steps of:

providing at least three electrodes, one of the at least three electrodes being a central electrode located in a position overlapping a midline of the subject~~substantially about the umbilicus of the subject~~, and the other at least two electrodes being side electrodes located on the subject spaced apart from the central electrode, a first of the side electrodes being located substantially about the left mid-axillary line and a second of the side electrodes being located substantially about the right mid-axillary line of the torso intermediate the rib cage and corresponding left and right iliac crests;

providing means electrically connecting said at least three electrodes and a signal generator, said means enclosed within a belt; ~~and~~

selectively defining electrodes to define electrode pairs from the at least three electrodes for selective stimulation of one or more of the abdominal muscles; and

passing at least one pulsed signal subcutaneously through the subject between the selected electrodes pairs to stimulate a selected one or more of the abdominal muscles

~~passing at least one pulsed signal subcutaneously through the subject between the at least three electrodes.~~

53. (Original) The method as claimed in claim 52, wherein each side electrode is located towards the mid-point of the corresponding mid-axillary line between the rib cage and the corresponding iliac crest.

54. (Original) The method as claimed in claim 52, wherein each side electrode is located adjacent the corresponding mid-axillary line.

55. (Original) The method as claimed in claim 54, wherein each side electrode is located adjacent the mid-point of the corresponding mid-axillary line between the rib cage and the corresponding iliac crest.

56. (Original) The method as claimed in claim 52, wherein the central electrode is located on the umbilicus and extends around the umbilicus.

57. (Original) The method as claimed in claim 52, wherein the central electrode is located on the umbilicus and extends completely around the umbilicus.

58. (Original) The method as claimed in claim 52, wherein the central electrode is located on the umbilicus, but with a greater area of the central electrode located below the umbilicus than above the umbilicus.

59. (Cancelled)

60. (Original) The method as claimed in claim 52, wherein the at least one pulsed signal is applied simultaneously to each of the side electrodes.

61. (Original) The method as claimed in claim 52, wherein each pulsed signal comprises a plurality of pulses at intervals in the range of 5 milliseconds to 1000 milliseconds.

62. (Original) The method as claimed in claim 61, wherein each pulsed signal comprises a plurality of pulses at intervals in the range of 20 milliseconds to 40 milliseconds.

63. (Original) The method as claimed in claim 62, wherein each pulsed signal comprises a plurality of pulses at intervals of approximately 30 milliseconds \pm 20%.

64. (Previously Presented) The method as claimed claim 52, wherein an interval between pulses of each pulsed signal is adjustable.

65. (Original) The method as claimed in claim 52, wherein each pulsed signal comprises pulses of duration in the range of 10 microseconds to 200000 microseconds.

66. (Original) The method as claimed in claim 65, wherein each pulsed signal comprises pulses of duration in the range of 50 microseconds to 1000 microseconds.

67. (Original) The method as claimed in claim 66, wherein each pulsed signal comprises pulses of duration in the range of 100 microseconds to 500 microseconds.

68. (Original) The method as claimed in claim 67, wherein each pulsed signal comprises pulses of duration of approximately 300 microseconds \pm 20%.

69. (Previously Presented) The method as claimed in claim 52, wherein a duration of each pulsed signal is adjustable.

70. (Original) The method as claimed in claim 52, wherein each pulsed signal comprises a plurality of pulses of magnitude in the range of 0 mA to 100 mA.

71. (Previously Presented) The method as claimed in claim 52, wherein a magnitude of each pulse of each pulsed signal is adjustable.

72. (New) The device as claimed in claim 1 wherein the selection means selects a center and at least one side electrode to allow current to flow between the two electrodes.

73. (New) The device as claimed in claim 1 wherein the selection means selects center and at least two side electrode to allow current to flow between the center and two side electrodes.

74. (New) The method as claimed in claim 52, wherein the selectively defining step further comprises as step of selecting a center and at least one side electrode to allow current to flow between the two electrodes.

75. (New) The method as claimed in claim 52, wherein the selectively defining step further comprises as step of selecting a center and at least two side electrodes to allow current to flow between the center and two side electrodes.